

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 30.04.2014

Revision: 25.04.2014

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Touch N Seal Firestop Gun Foam
- **Article number:** EHS 9701
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Convenience Products, division of Clayton Corp.
866 Horan Drive
Fenton, MO 63026-2416
Phone: 636-349-5855
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585



2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H222-H229.
The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H222.



H222: Extremely flammable aerosol.



flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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STOT SE 3 H335 May cause respiratory irritation.


· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

 Xn; Harmful


R20-48/20/21/22: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

 Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

 Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

 F+; Extremely flammable

R12: Extremely flammable.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomeres and homologues
4,4'-methylenediphenyl diisocyanate

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H222-H229.

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H222.

H222: Extremely flammable aerosol.

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H332 Harmful if inhaled.

H315 Causes skin irritation.

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- H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P211 Do not spray on an open flame or other ignition source.
 P280 Wear protective gloves / eye protection.
 P260 Do not breathe mist/vapours/spray.
 P314 Get medical advice/attention if you feel unwell.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- **Additional information:**

Contains isocyanates. May produce an allergic reaction.

- **Hazard description:**

- **WHMIS-symbols:**

- A - Compressed gas
 B5 - Flammable aerosol
 D2A - Very toxic material causing other toxic effects



- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

| | | |
|------------|---|----------------|
| HEALTH | 2 | Health = *2 |
| FIRE | 4 | Fire = 4 |
| REACTIVITY | 1 | Reactivity = 1 |

* - Indicates a long term health hazard from repeated or prolonged exposures.

- **HMIS Long Term Health Hazard Substances**

| | |
|-----------|--|
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues |
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate |

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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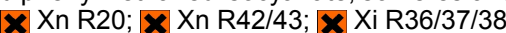
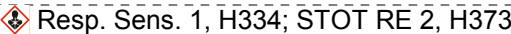
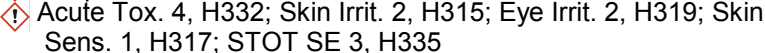
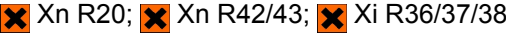
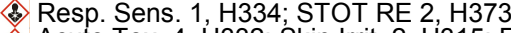
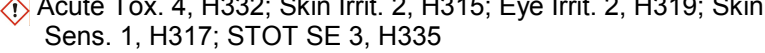
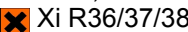
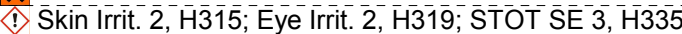
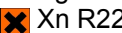
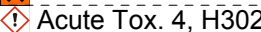
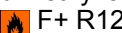
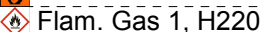
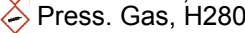
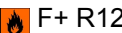

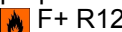
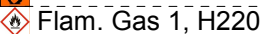

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3 Composition/information on ingredients

3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|--|--|--------|
| CAS: 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues  Carc. Cat. 3 <hr/>   | 20-40% |
| CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 | 4,4'-methylenediphenyl diisocyanate  Carc. Cat. 3 <hr/>   | 10-20% |
| CAS: 68527-02-6 EINECS: 271-247-1 | alkenes, C12-24, chloro  <hr/>  | 10-20% |
| CAS: 86675-46-9 | Halogenated Polyether Polyol  <hr/>  | 5-10% |
| CAS: 13674-84-5 | tris(2-chlorisopropyl)-phosphate R52/53 <hr/> Aquatic Chronic 3, H412 | 5-10% |
| CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 | dimethyl ether  <hr/>   | 5-10% |
| CAS: 72-28-5 | Isobutane  <hr/>  | 1-5% |
| CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 | propane  <hr/>   | 1-5% |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

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Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Do not pull solidified product off the skin.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Immediately remove contact lenses if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Asthma attacks

Headache

Breathing difficulty

Allergic reactions

Coughing

Nausea

Gastric or intestinal disorders when ingested.

Irritant to skin and mucous membranes.

Irritant to eyes.

Dizziness

Disorientation

· **Hazards**

Danger of impaired breathing.

Danger of disturbed cardiac rhythm.

Danger of pulmonary oedema.

Danger of pneumonia.

Danger of convulsion.

· **4.3 Indication of any immediate medical attention and special treatment needed**

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

Monitor circulation.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

Contains isocyanates. May produce an allergic reaction.

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5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Water in flooding quantities.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Danger of receptacles bursting because of high vapour pressure when heated.
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Eliminate all ignition sources if safe to do so.
Cool endangered receptacles with water spray.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Protect from heat.
Isolate area and prevent access.
Keep people at a distance and stay on the windward side.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Allow to solidify. Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **7.1 Precautions for safe handling**
Keep away from heat and direct sunlight.
Use only in well ventilated areas.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.
Keep respiratory protective device available.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.
Emergency cooling must be available in case of nearby fire.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
Provide ventilation for receptacles.
Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.
Store away from oxidizing agents.

· **Further information about storage conditions:**

Protect from heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

101-68-8 4,4'-methylenediphenyl diisocyanate

| | |
|-------------|---|
| PEL (USA) | Ceiling limit: 0,2 mg/m ³ , 0,02 ppm |
| REL (USA) | Long-term value: 0,05 mg/m ³ , 0,005 ppm Ceiling limit: 0,2* mg/m ³ , 0,02* ppm *10-min |
| TLV (USA) | Long-term value: 0,051 mg/m ³ , 0,005 ppm |
| EL (Canada) | Short-term value: C 0,01 ppm Long-term value: 0,005 ppm Skin; S |
| EV (Canada) | Long-term value: 0,005 ppm |

115-10-6 dimethyl ether

| | |
|-------------|--|
| IOELV (EU) | Long-term value: 1920 mg/m ³ , 1000 ppm |
| WEEL (USA) | Long-term value: 1000 ppm |
| EL (Canada) | Long-term value: 1000 ppm |

74-98-6 propane

| | |
|-----------|--|
| PEL (USA) | Long-term value: 1800 mg/m ³ , 1000 ppm |
| REL (USA) | Long-term value: 1800 mg/m ³ , 1000 ppm |

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| | |
|-------------|---|
| TLV (USA) | refer to Appendix F: minimal oxygen content |
| EL (Canada) | Long-term value: 1000 ppm |
| EV (Canada) | Long-term value: 1,000 ppm |

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Clean skin thoroughly immediately after handling the product.

- **Respiratory protection:**



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

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| |
|--|
| No further relevant information available. |
|--|

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9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

| | |
|---------|----------------|
| Form: | Aerosol |
| Colour: | Amber coloured |

| | |
|----------|-------------------------|
| · Odour: | Light Petroleum-like |
|----------|-------------------------|

| | |
|--------------------|-----------------|
| · Odour threshold: | Not determined. |
|--------------------|-----------------|

| | |
|-------------|-----------------|
| · pH-value: | Not determined. |
|-------------|-----------------|

· Change in condition

| | |
|------------------------------|-----------------|
| Melting point/Melting range: | Not Determined. |
|------------------------------|-----------------|

| | |
|------------------------------|------------------------------|
| Boiling point/Boiling range: | -44 °F / -42 °C (propellant) |
|------------------------------|------------------------------|

| | |
|----------------|--------------------------------|
| · Flash point: | -155 °F / -104 °C (propellant) |
|----------------|--------------------------------|

| | |
|----------------------------------|-----------------|
| · Flammability (solid, gaseous): | Not applicable. |
|----------------------------------|-----------------|

| | |
|-----------------------------------|-----------------|
| · Auto/Self-ignition temperature: | Not determined. |
|-----------------------------------|-----------------|

| | |
|------------------------------|-----------------|
| · Decomposition temperature: | Not determined. |
|------------------------------|-----------------|

| | |
|------------------|-------------------------------|
| · Self-igniting: | Product is not self-igniting. |
|------------------|-------------------------------|

| | |
|------------------------|---|
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
|------------------------|---|

· Explosion limits:

| | |
|--------|-----------------|
| Lower: | Not determined. |
|--------|-----------------|

| | |
|--------|-----------------|
| Upper: | Not determined. |
|--------|-----------------|

| | |
|--------------------|-----------------|
| · Vapour pressure: | Not determined. |
|--------------------|-----------------|

| | |
|---------------------|------------------------|
| · Density at 20 °C: | 1,01 g/cm ³ |
|---------------------|------------------------|

| | |
|--------------------|-----------------|
| · Relative density | Not determined. |
|--------------------|-----------------|

| | |
|------------------|-----------------|
| · Vapour density | Not determined. |
|------------------|-----------------|

| | |
|--------------------|-----------------|
| · Evaporation rate | Not applicable. |
|--------------------|-----------------|

· Solubility in / Miscibility with water:

| |
|-----------------------------------|
| Not miscible or difficult to mix. |
|-----------------------------------|

| | |
|--|-----------------|
| · Partition coefficient (n-octanol/water): | Not determined. |
|--|-----------------|

· Viscosity:

| | |
|----------|-----------------|
| Dynamic: | Not determined. |
|----------|-----------------|

| | |
|------------|-----------------|
| Kinematic: | Not determined. |
|------------|-----------------|

· Solvent content:

| | |
|------------------------|---------|
| VOC (US EPA Method 24) | 163 g/l |
|------------------------|---------|

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· **9.2 Other information**

No further relevant information available.

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10 Stability and reactivity

· **10.1 Reactivity**

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Danger of receptacles bursting because of high vapour pressure when heated.

· **10.3 Possibility of hazardous reactions**

Develops readily flammable gases/fumes.

Flammable.

Reacts with oxidizing agents.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Danger of receptacles bursting because of high vapour pressure when heated.

Toxic fumes may be released if heated above the decomposition point.

Contact with acids releases toxic gases.

· **10.4 Conditions to avoid**

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Hydrogen cyanide (prussic acid)

Phosphorus oxides (e.g. P₂O₅)

Chlorine

11 Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

101-68-8 4,4'-methylenediphenyl diisocyanate

| | | |
|------|------|--------------------|
| Oral | LD50 | 2200 mg/kg (mouse) |
|------|------|--------------------|

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· **Subacute to chronic toxicity:**

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

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- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Danger through skin adsorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with high danger of central respiratory arrest.

- **Acute effects (acute toxicity, irritation and corrosivity):** Vapours have narcotic effect.

- **Repeated dose toxicity:**

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Avoid transfer into the environment.

This statement was deduced from products with a similar structure or composition.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

- 14.1 UN-Number
- DOT, ADR, IMDG, IATA
- 14.2 UN proper shipping name

UN1950



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).

- DOT
- ADR
- IMDG, IATA
- 14.3 Transport hazard class(es)

Aerosols, flammable
1950 AEROSOLS, flammable
AEROSOLS, flammable

- DOT



- Class
- Label

2.1
2.1

- ADR



- Class
- Label

2 5F Gases.
2.1

- IMDG, IATA



- Class
- Label
- 14.4 Packing group
- DOT, ADR, IMDG, IATA
- 14.5 Environmental hazards:
- Marine pollutant:
- 14.6 Special precautions for user
- Danger code (Kemler):
- EMS Number:
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

2.1
2.1
Not Regulated
No
Warning: Gases.
-
F-D,S-U
Not applicable.

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· **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 1L
- **Transport category** 2
- **Tunnel restriction code** D
- **UN "Model Regulation":** UN1950, AEROSOLS, flammable, 2.1

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

| | |
|-----------|--|
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues |
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate |

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic Categories**· **EPA (Environmental Protection Agency)**

| | | |
|-----------|--|--------|
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | CBD |
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | D, CBD |

· **IARC (International Agency for Research on Cancer)**

| | | |
|-----------|--|---|
| 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues | 3 |
| 101-68-8 | 4,4'-methylenediphenyl diisocyanate | 3 |

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

101-68-8 | 4,4'-methylenediphenyl diisocyanate

- **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H220 Extremely flammable gas.
 H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.

R12 Extremely flammable.
 R20 Harmful by inhalation.
 R22 Harmful if swallowed.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R42/43 May cause sensitisation by inhalation and skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)

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NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas: Gases under pressure: Compressed gas
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Sources

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